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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,719	03/18/2004	Hiroaki Nasu	Q80238	5043
23373	7590 08/16/2005		EXAM	INER
SUGHRUE MION, PLLC			SANTIAGO, MARICELI	
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20037		2879		
			DATE MAILED: 08/16/2009	5 ;

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Supercond	10/802,719	NASU ET AL.	AN
Office Action Summary	Examiner	Art Unit	
	Mariceli Santiago	2879	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nety filed  s will be considered timely the mailing date of this of	y. ommunication.
Status			
1)⊠ Responsive to communication(s) filed on 7/18/	<b>2005</b> .		
	action is non-final.		
3) Since this application is in condition for allowan	nce except for formal matters, pro	secution as to the	merits is
closed in accordance with the practice under E			
Disposition of Claims			
4) Claim(s) 25-27 and 29-32 is/are pending in the	application.	·	
4a) Of the above claim(s) is/are withdraw	• •		,
5) Claim(s) is/are allowed.		•	
6)⊠ Claim(s) <u>25,26 and 29</u> is/are rejected.			
7) Claim(s) 27 and 30-32 is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers	·		
9)☐ The specification is objected to by the Examiner			
10)⊠ The drawing(s) filed on <u>18 March 2004</u> is/are: a		hy the Evaminer	
Applicant may not request that any objection to the o		=	,
Replacement drawing sheet(s) including the correction			R 1.121(d).
11) The oath or declaration is objected to by the Exa			
Priority under 35 U.S.C. § 119			
<u>_</u>		4.10	
<ul><li>12) Acknowledgment is made of a claim for foreign</li><li>a) All b) Some * c) None of:</li></ul>	priority under 35 U.S.C. § 119(a)	-(d) or (f).	
· ·	. have been received		
		N-	
			01.
<ol> <li>Copies of the certified copies of the priori application from the International Bureau</li> </ol>		a in this National s	Stage
* See the attached detailed Office action for a list of	• • • • • • • • • • • • • • • • • • • •		
and analysis asianoa office action for a list (	or the destined copies flot receive	u.	
Attach		-	
Attachment(s)	<b></b>		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)  Interview Summary Paper No(s)/Mail Da		
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa		<b>-152)</b>
J.S. Patent and Trademark Office			
PTOL-326 (Rev. 1-04) Office Act	tion Summary Par	rt of Paper No./Mail Da	ite 20050809

Application/Control Number: 10/802,719

Art Unit: 2879

### **DETAILED ACTION**

## Response to Amendment

The Amendment, filed on July 18, 2005, has been entered and acknowledged by the Examiner.

Cancellation of claims 1-24 and 28 has been entered.

Claims 25-27 and 29-32 are pending in the instant application.

## Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 25 and 26 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 3 of U.S. Patent No. 6,236,148. Although the conflicting claims are not identical, they are not patentably distinct from each other for the following reasons.

U.S Application SN 10/802,719	U.S. Patent No. 6,236,148
Claim 25 states a spark plug comprising	Claim 3 states a spark plug comprising a central
a central electrode;	electrode;
an insulating member disposed on the outside of	an insulating member disposed on the outside of
the central electrode;	the central electrode;
a main metal shell disposed on the outside of the	a main metal shell disposed on the outside of the
insulating member, the main metal shell having a	insulating member; and

Application/Control Number: 10/802,719

Art Unit: 2879

base portion;	a ground electrode disposed opposite to the central
a ground electrode disposed opposite to the central	electrode such that a spark discharge gap is
electrode such that a spark discharge gap is	formed;
formed: and	wherein the surface of the main metal shell is
a ring-shaped gasket to be fitted to the base portion	coated with a chromate film containing trivalent
of the main metal shell,	chrome by 95 wt % or more of contained chrome
wherein a surface of the gasket is coated with a	components, and
chromate film including trivalent chrome, and	further comprising a ring-shaped gasket to be fitted
wherein the chromate film contains chrome	to the base portion of a joining thread portion
components in which a ratio of the trivalent chrome	formed on the outer surface of the main metal shell;
is 95% or more.	wherein at least a portion of the gasket is coated
	with the chromate film.
Claim 26 states wherein the chromate film has a	Claim 3 states wherein the chromate film has a
thickness of 0.2 μm to 0.5 μm.	thickness of 0.2 $\mu m$ to 0.5 $\mu m$ .

Claims 25 and 29 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 9 of U.S. Patent No. 6,768,249. Although the conflicting claims are not identical, they are not patentably distinct from each other for the following reasons.

U.S Application SN 10/802,719	U.S. Patent No. 6,768,249
Claim 26 states a spark plug comprising	Claim 9 states a spark plug comprising:
a central electrode;	a central electrode;
an insulating member disposed on the outside of	an insulator provided outside the central electrode;
the central electrode;	a main metal shell provided outside the insulator;
a main metal shell disposed on the outside of the	a ground electrode provided to oppose to the
insulating member, the main metal shell having a	central electrode to define a spark discharge gap;
base portion;	and an annular gasket to be fitted around the basal
a ground electrode disposed opposite to the central	end portion of a mounting threaded section formed
electrode such that a spark discharge gap is	on a peripheral surface of the main metal shell,
formed: and	wherein a surface of the main metal shell is coated
a ring-shaped gasket to be fitted to the base portion	with a complex chromate coat that contains a
of the main metal shell,	chromium component comprising at least 90 wt %
wherein a surface of the gasket is coated with a	of trivalent chromium, and at least a part of the

Page 4

Application/Control Number: 10/802,719

Art Unit: 2879

chromate film including trivalent chrome, and	surface of the gasket being coated with the
wherein the chromate film contains chrome	complex chromate coat.
components in which a ratio of the trivalent chrome	·
is 95% or more.	
Claim 29 states wherein the content of sodium	Claim 9 states wherein the chromate film
components contained in said chromate film is 2 to	comprises at least a silicon component in an
7 wt %.	amount of 5 to 75 wt %.

# Allowable Subject Matter

Claims 27 and 30-32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

### **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mariceli Santiago whose telephone number is (571) 272-2464. The examiner can normally be reached on Monday-Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel, can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mariceli Santiago Primary Examiner Art Unit 2879